

Homework #49

Answers

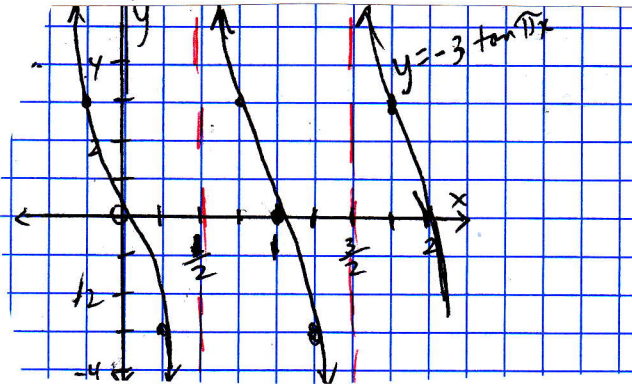
From Houghton-Mifflin

3rd Edition

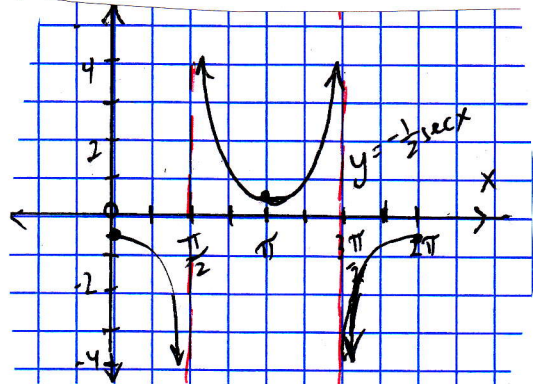
p341:

12) $y = -3 \tan \pi x$

amplitude = 3 (starts down),

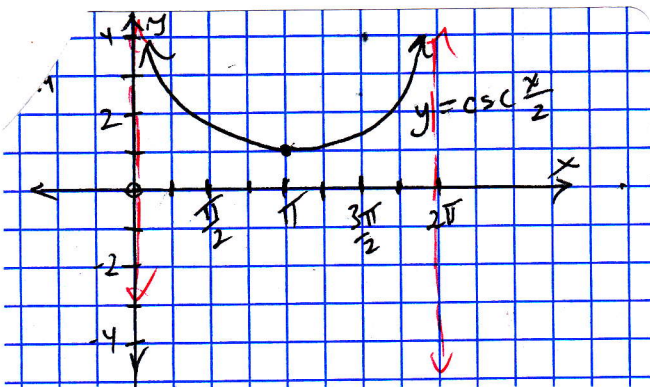
period = $\pi/\pi = 1$ 

13) $y = -\frac{1}{2} \sec x$

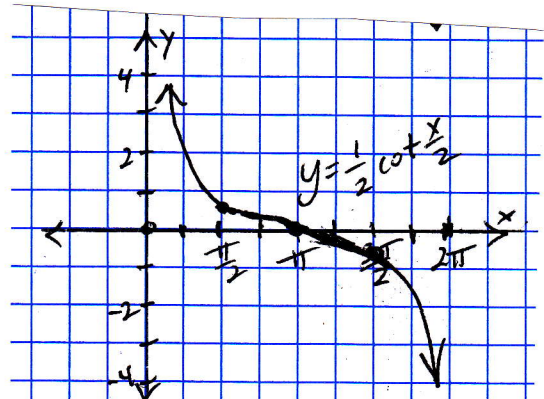
amplitude = $\frac{1}{2}$ (starts down),period = 2π 

19) $y = \csc(x/2)$

amplitude = 1,

period = $(2\pi)/(\frac{1}{2}) = 4\pi$ 

21) $y = (\frac{1}{2}) \cot(x/2)$

amplitude = $\frac{1}{2}$,period = $(2\pi)/(\frac{1}{2}) = 4\pi$ 

p330:

21) $f(x) = \sin x$, $g(x) = 4 + \sin x$

 $g(x)$ is $f(x)$ shifted 4 units up

23) $f(x) = \cos x$, $g(x) = 2 \cos x$

 $g(x)$ is $f(x)$ with an amplitude (or stretch) by 2